TX RX SYSTEMS INC.™

NEW

SPACE • AND • DOLLAR • SAVING

CROSS MOUNTS

144-174 MHZ

125-400 WATTS

WHO SAYS

YOU CAN'T PUT A CLOSE-SPACED VHF DUPLEXER IN YOUR RADIO CABINET ?

HERE'S ALL THE SPACE YOU NEED:

- 8 5/8" from one radio cabinet door to the rack mount rail
- 9 1/2" rack space on 4 cavity models
- 13 3/4" rack space on 6 cavity model

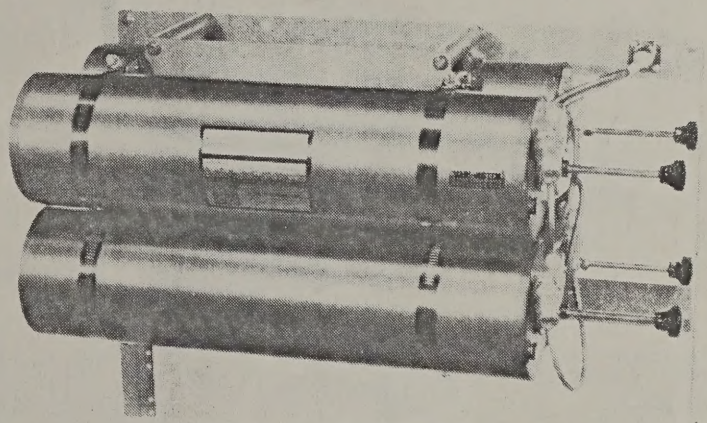
AND CHECK THESE SPECS:

MODEL 28-37-12 (4 cavity)

0.5 MHz SEPARATION 65db

0.8 MHz SEPARATION 78db

1.0 MHz SEPARATION 85db



MODELS 28-37-12, 28-37-13 & 28-37-14
(All 19" EIA rack mount)

Typical response curves of 4 cavity models shown on back.

SAVE . . . . . .

- FLOOR SPACE used by extra duplexer cabinet
- COST of extra cabinet
- COST of added cabinet shipping weight
- COST of field installation when supplied factory-installed and tested
- DELAYS in system turn-on due to shipping coordination problems, and in a crisis, air shipments are a snap.

For complete Duplexer specifications refer to Brochure No. 125 J8

ALL THIS FROM . . . . . .

VARI-NOTCH™ SYSTEMS INC.

(Patent Pending)

A STATE-OF-THE-ART DESIGN FOR THE SUPPRESSION OF TRANSMITTER NOISE

T125M8

TX RX SYSTEMS INC. 4205 INDUSTRIAL PARKWAY, ANGOLA, N.Y. 14006 TELEPHONE 716-549-4700

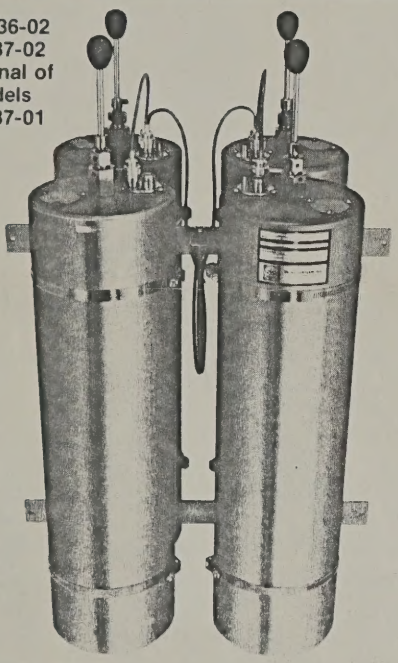
TX RX SYSTEMS INC.™

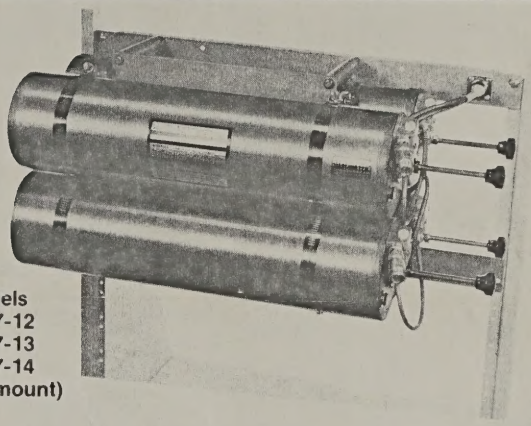
BASE AND MOBILE DUPLEXERS

VARI-NOTCH™ • SERIES NOTCH™ • BANDPASS

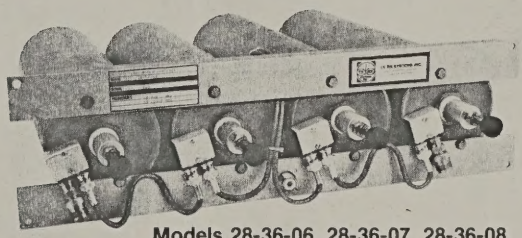
30 MHz TO 960 MHz

MODELS: 28-36-02
28-36-05, 28-37-02
28-37-09, Internal of
Cabinet Models
28-36-03, 28-37-01

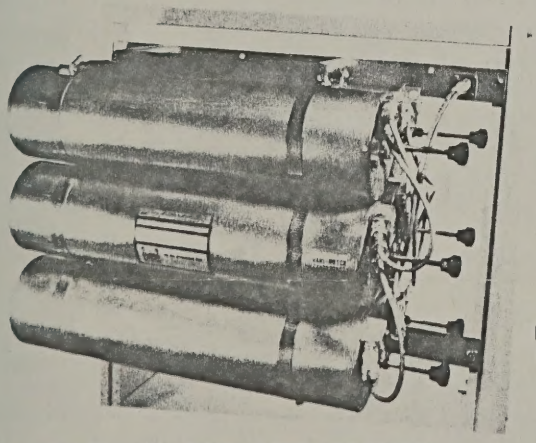




Models
28-37-12
28-37-13
28-37-14
(Cross mount)

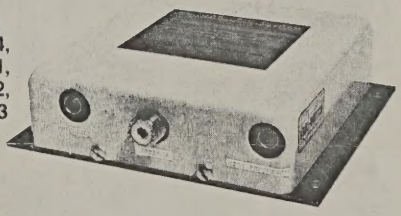


Models 28-36-06, 28-36-07, 28-36-08,
28-36-10, 28-37-04, 28-37-06, 28-37-07,
28-52-02, 28-65-02, 28-65-07, 28-70-02,
28-70-09, 28-69-02, 28-69-06, 28-88-01



Model 28-37-15
(Cross-mount)

Models 28-65-04,
28-66-02, 28-70-04,
28-70-10, 28-70-11,
28-70-05, 28-70-12,
27-36-03, 27-41-03



A STATE-OF-THE-ART DESIGN
FOR THE SUPPRESSION OF TRANSMITTER NOISE . . .

VARI-NOTCH™
SYSTEMS INC

(Patent Pending)

VARI-NOTCH™ is the trademark of TX RX SYSTEMS new and exclusive filter design, which offers the best cost-to-performance ratio of any design in its class. VARI-NOTCH designs are unsurpassed for close-spaced duplexing, combining the low loss and close frequency spacing advantages of notch filters with the broad isolation and selective pass characteristics of bandpass filters. The small circuit geometry and attendant circuit efficiency has resulted in the smallest available VHF rack mount duplexers for 0.5 MHz separation. Furthering the small size advantage, a "cross-mount" rack mounting version allows 5 of these models to be field installed in cabinets having a minimum depth of 8.5" from one door to mounting rails.

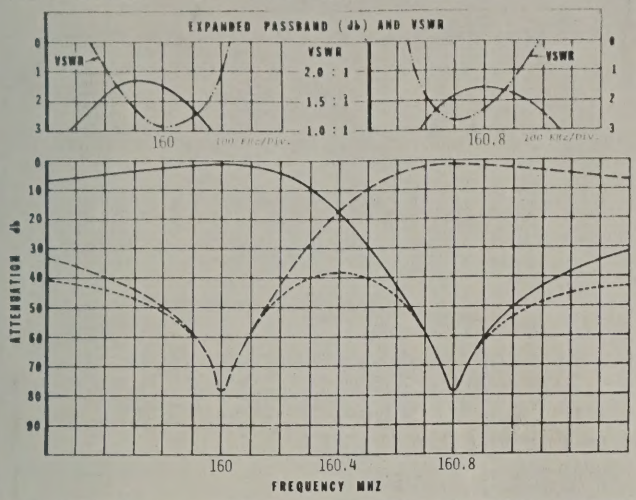
SERIES NOTCH™ is the latest in band reject duplexer design. Tunable passbands allow use of construction techniques which optimize isolation specifications, normally traded off to obtain wide fixed, passbands. As a result, optimizing the passband when field tuning to a different separation is possible.

125J8

TYPICAL RESPONSE CURVES:

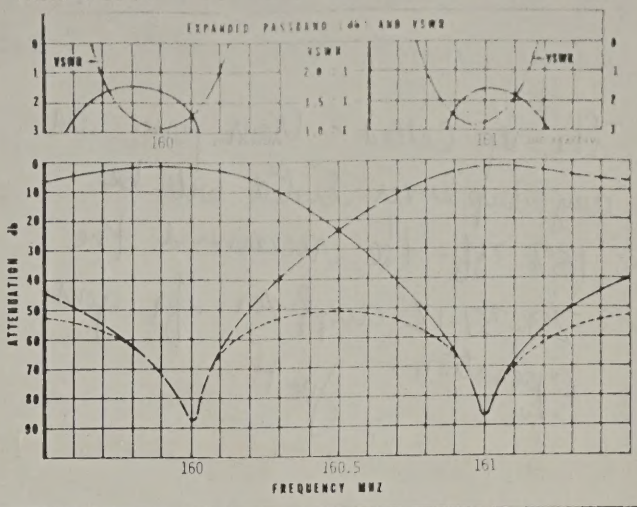
144-174 MHz 125 watts

VARI-NOTCH 0.8 MHz SEP. MODEL 28-37-12



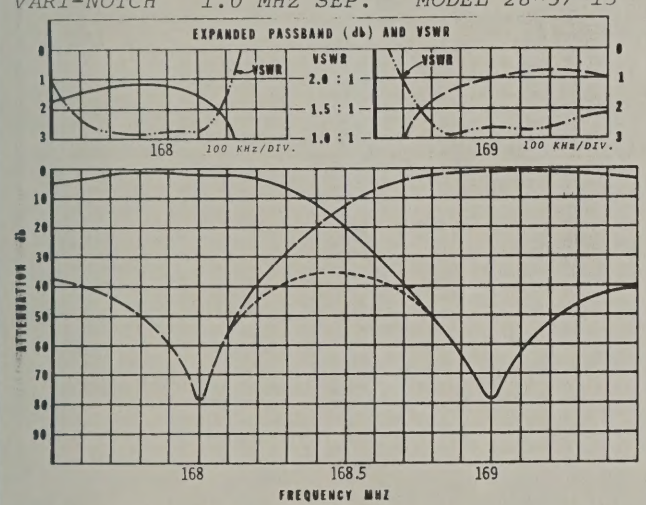
144-174 MHz 125 watts

VARI-NOTCH 1.0 MHz SEP. MODEL 28-37-12



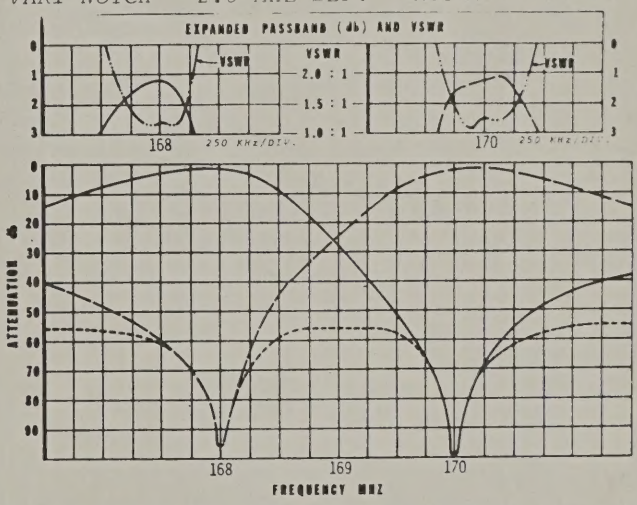
144-174 MHz 125 watts

VARI-NOTCH 1.0 MHz SEP. MODEL 28-37-13



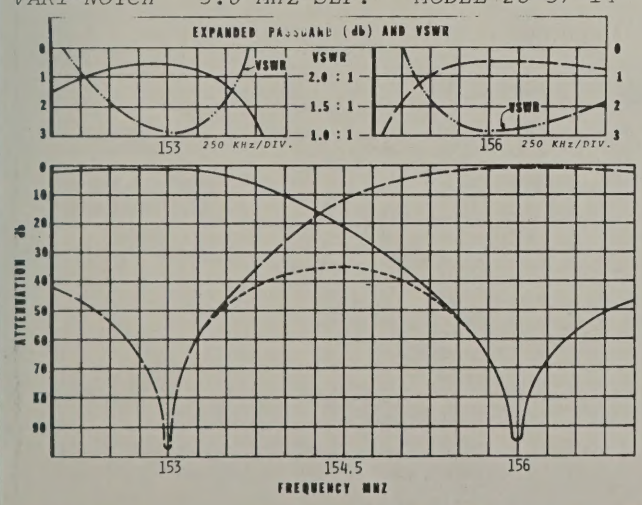
144-174 MHz 125 watts

VARI-NOTCH 2.0 MHz SEP. MODEL 28-37-13



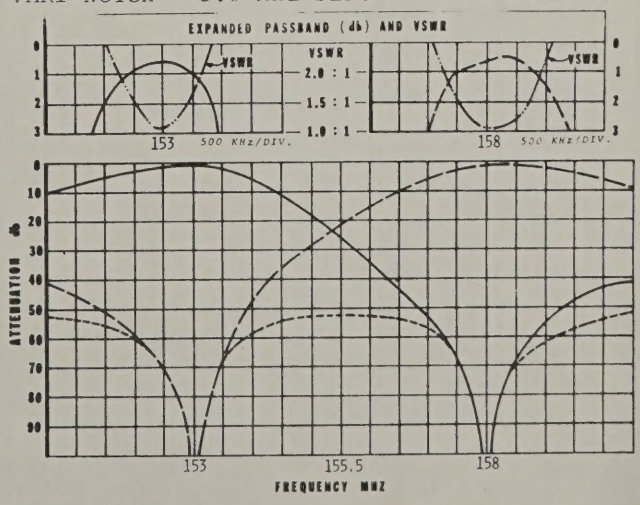
144-174 MHz 400 watts

VARI-NOTCH 3.0 MHz SEP. MODEL 28-37-14



144-174 MHz 400 watts

VARI-NOTCH 5.0 MHz SEP. MODEL 28-37-14



I AM CHECKING ON PRICING. I'LL LET YOU KNOW AS SOON AS THE REP CALLS ME BACK. TRY TO CALL & LET ME KNOW WHICH ONE YOU WOULD BE INTERESTED IN.

The rep called - your price on any duplexer listed will be 15% off. He recommend the 28.37-12 duplexer for your operation. Jim H.

73,

Jim Henderhot,
WA6VQP.

PH - 481-3140. (hm).
922-3400. (wk).

BASE STATION DUPLEXERS

GENERAL SPECIFICATIONS

VSWR 1.3:1

TEMPERATURE RANGE -40°C to +80°C IMPEDANCE 50 ohms

MOUNT TYPE: CM = CROSS MT., R = RACK MT., C = COMPACT

CIRCUIT STYLE	FREQUENCY RANGE MHz	MODEL NO.	MINIMUM FREQ. SEP. MHz	POWER RATING WATTS	INSERTION LOSS db	ISOLATION PER CHAN.	ISOLATION BETWEEN CHANS.	STD MT	ALT MT	DIMENSIONS H"	DIMENSIONS W"	DIMENSIONS D"	CONNECTORS STD	CONNECTORS OPT	CONNECTORS ALT
VARI-NOTCH™	**132-150**	28-36-07	3.0	400	0.7	85	30	R		5.25	19	+4.5, -17	N	UHF	-2
	132-150	28-36-05	2.0	400	0.9	100	75	R		33	19	±7.5	N		-1
	132-150	28-36-06	1.0	125	1.2	75	35	R		5.25	19	+4.5, -17	N	UHF	-2
	132-150	28-36-10	0.5	125	2.2	90	40	R		8.75	19	+4.5, -17	N	UHF	-2
	132-150	28-36-08	0.5*	125	1.7	65	30	R		5.25	19	+4.5, -17	N	UHF	-2
	132-150	28-36-02	0.5*	400	1.5	85	50	R		33	19	±7.5	N		-1
	132-150	28-36-03	0.5	400	1.5	85	50	C		36.9	22	14.8	N		-1
	132-150	28-36-11	0.3	400	2.2	100	50	R		33	24	±7.5	N		-1
	132-150	28-36-01	0.3	400	2.2	100	50	C		40	27	24	N		-1
	144-174	28-37-14	3.0*	400	0.7	85	30	CM		9.5	19	8.5	N		-2
	144-174	28-37-07	3.0*	400	0.7	85	30	R		5.25	19	+4.5, -15.5	N		-2
	144-174	28-37-09	2.0	400	0.9	100	75	R		33	19	±7.5	N	UHF	-1
	144-174	28-37-13	1.0*	125	1.2	75	35	CM		9.5	19	8.5	N	UHF	-2
	144-174	28-37-06	1.0*	125	1.2	75	35	R		5.25	19	+4.5, -15.5	N	UHF	-2
	144-174	28-37-15	0.5*	125	2.2	90	40	CM		13.7	19	8.5	N	UHF	-2
	144-174	28-37-05	0.5*	125	2.2	90	40	R		8.75	19	+4.5, -15.5	N	UHF	-2
	144-174	28-37-12	0.5*	125	1.7	65	30	CM		9.5	19	8.5	N	UHF	-2
	144-174	28-37-04	0.5*	125	1.7	65	30	R		5.25	19	+4.5, -15.5	N	UHF	-2
	144-174	28-37-10	0.5	400	1.6	120	55	R		33	24	±7.5	N		1
	144-174	28-37-02	0.5*	400	1.5	85	50	R		33	19	±7.5	N		-1
	144-174	28-37-01	0.5	400	1.5	85	50	C		36.9	22	14.8	N		-1
	144-174	28-37-11	0.3	400	2.2	100	50	R		33	24	±7.5	N		-1
	144-174	28-37-03	0.3	400	2.2	100	50	C		40	27	24	N		-1
	144-174	28-37-08	.240	400	3.0	100	50	C		66.6	22	17.2	N		-1
	215-250	28-52-02	1.6	250	1.2	90	55	R		5.25	19	+3, -15	N	UHF	-2
	406-420	28-65-07	3.0	250	1.25	85	60	R	-A	5.25	19	+3, -9	N	UHF	-2
	406-420	28-65-02	3.0	350	0.8	80	30	R	-A	5.25	19	+3, -9	N	UHF	-2
	406-420	28-65-01	1.5	350	1.5	90	50	R		18	19	±7.5	N		-1
	406-420	28-65-05	0.7	350	2.2	100	50	R		33	19	±7.5	N		-1
	406-420	28-65-06	0.7	350	2.2	100	50	C		36.9	22	14.8	N		-1
	450-470	28-70-09	5.0	250	1.25	95	70	R	-A	5.25	19	+3, -9	N	UHF	-2
	450-470	28-70-02	5.0	350	0.6	90	50	R	-A	5.25	19	+3, -9	N	UHF	-2
	450-470	28-70-01	1.5	350	1.5	90	50	R		18	19	±7.5	N		-1
	450-470	28-70-07	0.7	350	2.2	100	50	R		33	19	±7.5	N		-1
	450-470	28-70-08	0.7	350	2.2	100	50	C		36.9	22	14.8	N		-1
	470-512	28-69-06	3.0	250	1.25	85	60	R	-A	5.25	19	+3, -9	N	UHF	-2
	470-512	28-69-02	3.0	350	0.8	80	30	R	-A	5.25	19	+3, -9	N	UHF	-2
	470-512	28-69-01	1.5	350	1.5	90	50	R		18	19	±7.5	N		-1
	470-512	28-69-04	0.7	350	2.2	100	50	R		33	19	±7.5	N		-1
	470-512	28-69-05	0.7	350	2.2	100	50	C		36.9	22	14.8	N		-1
	890-960	28-88-02	3.6	125	1.5	100	40	R		8.75	19	+3, -6.5	N		-2
	890-960	28-88-01	3.6	125	1.0	75	30	R	-A	5.25	19	+3, -6.5	N		-2
SERIES NOTCH™	**132-150**	33-36-01	4.5	125	0.6	66	N/A	R		3.5	19	+2, -6	BNC-U	BNC-N	-3
	132-150	33-36-02	2.0*	125	1.3	75	N/A	R		3.5	19	+2, -6	BNC-U	BNC-N	-3
	148-174	33-41-01	4.5	125	0.6	66	N/A	R		3.5	19	+2, -6	BNC-U	BNC-N	-3
	148-174	33-41-02	2.0*	125	1.3	75	N/A	R		3.5	19	+2, -6	BNC-U	BNC-N	-3
BANDPASS	**66-88**	26-28-01	2.0	400	1.2	52	80	R		64	19	±7.5	N	UHF	
	66-88	26-28-02	2.0	400	1.2	52	80	C		75.4	22	17.2	N	UHF	
	132-150	26-36-01	3.0	400	1.2	55	80	R		33	19	±7.5	N	UHF	
	132-150	26-36-02	3.0	400	1.2	55	80	C		36.9	22	14.8	N	UHF	
	144-174	26-37-02	3.0	400	1.2	55	80	R		33	19	±7.5	N	UHF	
	144-174	26-37-01	3.0	400	1.2	55	80	C		36.9	22	14.8	N	UHF	
	406-420	26-65-01	5.0	350	1.2	53	80	R		18	19	±7.5	N	UHF	
	406-420	26-65-02	5.0	350	1.2	53	80	C		24.5	22	16.4	N	UHF	
	450-470	26-70-01	5.0	350	1.2	53	80	R		18	19	±7.5	N	UHF	
	450-470	26-70-02	5.0	350	1.2	53	80	C		24.5	22	16.4	N	UHF	

* SEPARATION VARIATION FOR MODELS ABOVE

MODEL NO.	FREQ. SEP. MHz	INSERTION LOSS db	ISOLATION db PER CHAN.	ISOLATION db BETWEEN CHANS.
28-36-08	1.0	1.7	85	48
28-36-08	2.0	1.7	95	65
28-36-02	1.0	1.5	100	70
28-37-14 / 28-37-07	5.0	0.7	100	48
28-37-13 / 28-37-06	2.0	1.2	90	50
28-37-15 / 28-37-05	0.6	2.2	100	40

MODEL NO	FREQ. SEP. MHz	INSERTION LOSS db	ISOLATION db PER CHAN.	ISOLATION db BETWEEN CHANS
28-37-12 / 28-37-04	0.6	1.7	72	30
28-37-12 / 28-37-04	0.8	1.7	78	35
28-37-12 / 28-37-04	1.0	1.7	85	48
28-37-12 / 28-37-04	2.0	1.7	95	65
28-37-02	0.6	1.5	92	58
28-37-02	1.0	1.5	100	70
33-36-02	5.0	0.8	75	N/A
33-41-02	5.0	0.8	75	N/A

NOTES:
1. "Option" selections do not affect the price of a model, however, choice of an "Alternate" will cause a decrease or increase as the price list will reflect.
2. Cross Mount (CM) models should be ordered for field mounting in cabinets which have a minimum of 8.5" from one door to the rack mount rail.
3. BNC-U (or -N) indicates BNC Connectors on the Transmitter and Receiver terminals with UHF (or -N) on the Antenna terminal.

ALTERNATE MOUNTING
-A: 5.25" high, 19" wide, 12" deep flush front panel mount, with input Connectors and tuning adjustment to rear.

ALTERNATE CONNECTORS
-1: Order 3 each N-to-UHF Adaptor Model 94-00-01.
-2: BNC female Connectors on Transmitter and Receiver terminals, with N Antenna standard unless UHF is specified.
-3: UHF Connectors on Transmitter and Receiver Terminals. Order 2 each 94-00-03 BNC to UHF Adaptors.